Application



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L6 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:453188 HCAPLUS
DOCUMENT NUMBER: 141:23427
ENTRY DATE: Entered STN: 04 Jun 2004
TITLE: Preparation of N-oxides of heteroarylmethyl phenyl amines as phosphodiesterase 4 inhibitors
INVENTOR(S): Schumacher, Richard A.; Graham, Elizabeth Doorly; Hopper, Allen T.; Tehim, Ashok
PATENT ASSIGNEE(S): Memory Pharmaceuticals Corporation, USA
SOURCE: PCT Int. Appl., 93 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
INT. PATENT CLASSIF.:
MAIN: C07D213-00
CLASSIFICATION: 27-16 (Heterocyclic Compounds (One Hetero Atom))
Section cross-reference(s): 1, 63
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE | |
|---|---|---|---|---|---|
| WO 2004046113 | A2 | 20040603 | WO 2003-US36986 | 20031119 | |
| WO 2004046113 | A3 | 20050324 | | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | | |
| RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | | |
| CA 2506297 | AA | 20040603 | CA 2003-2506297 | 20031119 | |
| US 2004152902 | A1 | 20040805 | US 2003-715819 | 20031119 | <-- |
| BR 2003015705 | A | 20050906 | BR 2003-15705 | 20031119 | |
| EP 1569908 | A2 | 20050907 | EP 2003-786857 | 20031119 | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | | | | | |

PRIORITY APPLN. INFO.: US 2002-427221P P 20021119
WO 2003-US36986 W 20031119

PATENT CLASSIFICATION CODES:

| PATENT NO. | CLASS | PATENT FAMILY CLASSIFICATION CODES | |
|---|---|---|---|
| WO 2004046113 | ICM | C07D213-00 | |
| WO 2004046113 | ECLA | C07D213/89B; C07D401/12+257+213 | |
| CA 2506297 | ECLA | C07D213/89B; C07D401/12+257+213 | |
| US 2004152902 | NCL | 546/275.700 | <-- |
| BR 2003015705 | ECLA | C07D213/89B; C07D401/12+257+213 | |
| EP 1569908 | ECLA | C07D213/89B; C07D401/12+257+213 | |

OTHER SOURCE(S): MARPAT 141:23427
GRAPHIC IMAGE:



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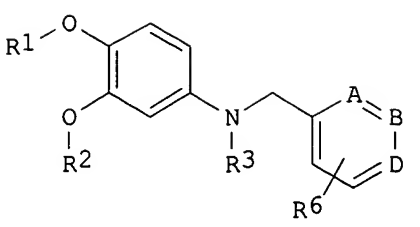

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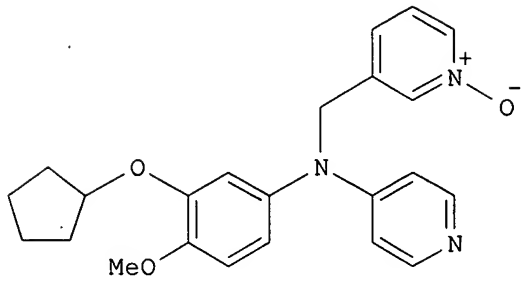

II

ABSTRACT:
Nitrogen oxides of I [one of A, B, D = NO and the others are CR6; R1-2 = alkyl; R3 = H, cycloalkyl, etc.; R6 = H, halo, alkyl, alkoxy, CN, OH] and related derivs. are prepared For instance, 4-[(3-cyclopentyloxy-4-methoxyphenyl)amino]pyridine is alkylated with 3-chloromethylpyridine N-oxide (preparation given) (DMF, NaH) to give II. I are inhibitors of PDE4 and useful for the treatment of depression, Alzheimer's disease, etc.

SUPPL. TERM: phosphodiesterase inhibitor pyridineNoxide prepn
INDEX TERM: Brain, disease
Prion diseases
(Creutzfeldt-Jakob; preparation of N-oxides of heteroarylmethyl Ph amines as phosphodiesterase 4 inhibitors)
INDEX TERM: Nervous system, disease
(Huntington's chorea; preparation of N-oxides of heteroarylmethyl Ph amines as phosphodiesterase 4 inhibitors)
INDEX TERM: Mental disorder
(Pick's disease; preparation of N-oxides of heteroarylmethyl Ph amines as phosphodiesterase 4 inhibitors)
INDEX TERM: Nervous system, disease
(amyotrophic lateral sclerosis; preparation of N-oxides of heteroarylmethyl Ph amines as phosphodiesterase 4 inhibitors)
INDEX TERM: Mental disorder
(bipolar disorder; preparation of N-oxides of heteroarylmethyl Ph amines as phosphodiesterase 4 inhibitors)
INDEX TERM: Mental disorder
(cognitive; preparation of N-oxides of heteroarylmethyl Ph amines as phosphodiesterase 4 inhibitors)
INDEX TERM: Mental disorder
(dementia, multi-infarct; preparation of N-oxides of

heteroarylmethyl Ph amines as phosphodiesterase 4 inhibitors)

INDEX TERM: Mental disorder
(dementia; preparation of N-oxides of heteroarylmethyl Ph amines as phosphodiesterase 4 inhibitors)

INDEX TERM: Mental disorder
(depression; preparation of N-oxides of heteroarylmethyl Ph amines as phosphodiesterase 4 inhibitors)

INDEX TERM: Cognition
Memory, biological
(disorder; preparation of N-oxides of heteroarylmethyl Ph amines as phosphodiesterase 4 inhibitors)

INDEX TERM: Spinal cord, disease
(injury; preparation of N-oxides of heteroarylmethyl Ph amines as phosphodiesterase 4 inhibitors)

INDEX TERM: Mental disorder
(major depression; preparation of N-oxides of heteroarylmethyl Ph amines as phosphodiesterase 4 inhibitors)

INDEX TERM: Mental disorder
(memory disorder; preparation of N-oxides of heteroarylmethyl Ph amines as phosphodiesterase 4 inhibitors)

INDEX TERM: AIDS (disease)
Aging, animal
Allergy inhibitors
Alzheimer's disease
Anti-AIDS agents
Anti-Alzheimer's agents
Anti-inflammatory agents
Antidepressants
Antiparkinsonian agents
Antipsychotics
Cardiovascular agents
Drug dependence
Human
Hypoxia
Inflammation
Multiple sclerosis
Parkinson's disease
Schizophrenia
(preparation of N-oxides of heteroarylmethyl Ph amines as phosphodiesterase 4 inhibitors)

INDEX TERM: Injury
(spinal cord; preparation of N-oxides of heteroarylmethyl Ph amines as phosphodiesterase 4 inhibitors)

INDEX TERM: Brain, disease
(stroke; preparation of N-oxides of heteroarylmethyl Ph amines as phosphodiesterase 4 inhibitors)

INDEX TERM: Head, disease
(trauma; preparation of N-oxides of heteroarylmethyl Ph amines as phosphodiesterase 4 inhibitors)

INDEX TERM: 60-92-4, CAMP 9036-21-9, PDE4
ROLE: BSU (Biological study, unclassified); BIOL (Biological study)
(preparation of N-oxides of heteroarylmethyl Ph amines as phosphodiesterase 4 inhibitors)

INDEX TERM: **699004-00-7P**, N-[3,4-Bis(difluoromethoxy)phenyl]-N-[(1-oxo-3-pyridyl)methyl]-4-[2-(tetrahydropyran-2-yl)-2H-tetrazol-5-yl]aniline
ROLE: PAC (Pharmacological activity); RCT (Reactant); SPN

(Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of N-oxides of heteroarylmethyl Ph amines as phosphodiesterase 4 inhibitors)

INDEX TERM: **699003-92-4P 699003-94-6P**
**699003-95-7P**, 4-[N-(3-Cyclopentyloxy-4-methoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid
**699003-97-9P**, 3-[N-(3-Cyclopentyloxy-4-methoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid
**699003-98-0P 699003-99-1P**
**699004-01-8P**, 3'-Chloro-3-cyclopentyloxy-4-methoxy-N-[(1-oxo-3-pyridyl)methyl]diphenylamine **699004-02-9P**, 3'-Chloro-4-methoxy-N-[(1-oxo-3-pyridyl)methyl]-3-[(tetrahydrofuran-3-yl)oxy]diphenylamine
**699004-03-0P 699004-04-1P**, 4-Difluoromethoxy-N-[(1-oxo-3-pyridyl)methyl]-3-[(tetrahydrofuran-3-yl)oxy]diphenylamine
**699004-05-2P**, 3,4-Bis(difluoromethoxy)-N-[(1-oxo-3-pyridyl)methyl]diphenylamine **699004-06-3P**
**699004-07-4P 699004-08-5P**
**699004-09-6P**, 4'-tert-Butyldimethylsilyloxy-3-cyclopentyloxy-4-methoxy-N-[(1-oxo-3-pyridyl)methyl]diphenylamine **699004-10-9P**, 3-[N-(3-Cyclopentyloxy-4-difluoromethoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699004-11-0P**, 3-[N-[4-Methoxy-3-[(tetrahydrofuran-3-yl)oxy]phenyl]-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699004-12-1P**
**699004-13-2P**, 4-[N-(3-Cyclopropylmethoxy-4-methoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid
**699004-14-3P**, 3-[N-(3-Cyclopropylmethoxy-4-difluoromethoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699004-15-4P**, 3-[N-[3-[3-(4-Chlorophenyl)propoxy]-4-methoxyphenyl]-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699004-16-5P**, 3-[N-(3-Cyclopropylmethoxy-4-methoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699004-17-6P**, 3-[N-[3-(2-Indanyloxy)-4-methoxyphenyl]-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699004-18-7P**, 3-[N-[3-(2-Methoxyethoxy)-4-methoxyphenyl]-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699004-19-8P**, 3-Cyclopropylmethyloxy-4-difluoromethoxy-N-[(1-oxo-3-pyridyl)methyl]-4'-(2H-tetrazol-5-yl)diphenylamine
**699004-20-1P**, 3-Cyclopentyloxy-4-methoxy-N-[(1-oxo-3-pyridyl)methyl]-4'-(2H-tetrazol-5-yl)diphenylamine
**699004-21-2P**, 3-Cyclopentyloxy-4-methoxy-N-[(1-oxo-3-pyridyl)methyl]-3'-(2H-tetrazol-5-yl)diphenylamine
**699004-22-3P**, (R)-4-Methoxy-N-[(1-oxo-3-pyridyl)methyl]-3-((tetrahydrofuran-3-yl)oxy)-4'-(2H-tetrazol-5-yl)diphenylamine **699004-23-4P**, 3-Cyclopropylmethyloxy-4-methoxy-N-[(1-oxo-3-pyridyl)methyl]-4'-(2H-tetrazol-5-yl)diphenylamine **699004-24-5P**, (R)-4-Difluoromethoxy-N-[(1-oxo-3-pyridyl)methyl]-3-((tetrahydrofuran-3-yl)oxy)-4'-(2H-tetrazol-5-yl)diphenylamine **699004-25-6P**, 3-Cyclopentyloxy-4-difluoromethoxy-N-[(1-oxo-3-pyridyl)methyl]-4'-(2H-tetrazol-5-yl)diphenylamine
**699004-26-7P**, 3-Cyclopropylmethyloxy-4-difluoromethoxy-N-[(1-oxo-3-pyridyl)methyl]-3'-(2H-tetrazol-

5-yl)diphenylamine **699004-27-8P**,
3,4-Bis(difluoromethoxy)-N-[(1-oxo-3-pyridyl)methyl]-4'-(2H-tetrazol-5-yl)diphenylamine **699004-28-9P**,
N-(3-Cyclopentyloxy-4-methoxyphenyl)-N-(3-pyridyl)-N-[(1-oxo-3-pyridyl)methyl]amine **699004-29-0P**,
N-(3-Cyclopentyloxy-4-difluoromethoxyphenyl)-N-(3-pyridyl)-N-[(1-oxo-3-pyridyl)methyl]amine **699004-30-3P**,
N-(3-((Cyclopropyl)methoxy)-4-difluoromethoxyphenyl)-N-(3-pyridyl)-N-[(1-oxo-3-pyridyl)methyl]amine
**699004-31-4P 699004-32-5P**,
3-Cyclopentyloxy-3'-[(ethanesulfonyl)amino]-4-methoxy-N-[(1-oxo-3-pyridyl)methyl]diphenylamine **699004-33-6P**,
3-Cyclopentyloxy-4-methoxy-3'-[(propanesulfonyl)amino]-N-[(1-oxo-3-pyridyl)methyl]diphenylamine **699004-34-7P**,
3-Cyclopentyloxy-4'-[(ethanesulfonyl)amino]-4-methoxy-N-[(1-oxo-3-pyridyl)methyl]diphenylamine **699004-35-8P**,
3-Cyclopentyloxy-4-methoxy-4'-[(propanesulfonyl)amino]-N-((1-oxo-3-pyridyl)methyl)diphenylamine **699004-36-9P**,
3-Cyclopropylmethoxy-3'-[(ethanesulfonyl)amino]-4-methoxy-N-[(1-oxo-3-pyridyl)methyl]diphenylamine **699004-37-0P**
**699004-38-1P**, 4-Methoxy-3-[2-(2-pyridyl)ethoxy]-N-[(1-oxo-3-pyridyl)methyl]diphenylamine **699004-39-2P**
**699004-40-5P**, 3'-Chloro-4-methoxy-3-[2-(2-pyridyl)ethoxy]-N-[(1-oxo-3-pyridyl)methyl]diphenylamine
**699004-41-6P**, 3-Cyclopentyloxy-4-methoxy-4'-[(5-oxopyrrolidinyl)methoxy]-N-[(1-oxo-3-pyridyl)methyl]diphenylamine **699004-42-7P**,
3-Cyclopentyloxy-4-methoxy-N-[3-(aminocarbonyl)phenyl]-N-[(1-oxo-3-pyridyl)methyl]aniline **699004-43-8P**,
3,4-Bis(difluoromethoxy)-N-(3-carboxy-4-chlorophenyl)-N-[(1-oxo-3-pyridyl)methyl]aniline **699004-44-9P**,
3,4-Bis(difluoromethoxy)-N-[4-(pyrrol-1-yl)phenyl]-N-[(1-oxo-3-pyridyl)methyl]aniline **699004-45-0P**
**699004-46-1P 699004-47-2P**
**699004-48-3P**, 3-Cyclopentyloxy-4-methoxy-N-(4-carboxy-3-chlorophenyl)-N-[(1-oxo-3-pyridyl)methyl]aniline
**699004-49-4P**, 2-Acetyl-7-methoxy-4-[N-(4-cyanophenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzofuran
**699004-50-7P**, 2-Acetyl-7-methoxy-4-[N-phenyl-N-[(1-oxo-4-pyridyl)methyl]amino]benzofuran **699004-51-8P**
, 2-Acetyl-7-methoxy-4-[N-(3-carboxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzofuran **699004-52-9P**,
1-Cyclopentyl-3-ethyl-6-[N-(3-carboxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]indazole **699004-53-0P**,
2-Acetyl-7-methoxy-4-[N-(4-acetylphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzofuran **699004-54-1P**
**699004-55-2P 699004-56-3P**
**699004-57-4P**, 3-[N-(3-Cyclopentyloxy-4-methoxyphenyl)-N-[(1-oxo-2-pyridyl)methyl]amino]benzoic acid
**699004-58-5P 699004-59-6P**
**699004-60-9P 699004-61-0P**
**699004-62-1P 699004-63-2P**
**699004-64-3P 699004-65-4P**
**699004-66-5P**, 3-[N-(3-Cyclopentyloxy-4-methoxyphenyl)-N-[(5-fluoro-1-oxo-3-pyridyl)methyl]amino]benzoic acid **699004-67-6P**,
4-[N-(3-Cyclopentyloxy-4-methoxyphenyl)-N-[(5-fluoro-1-oxo-3-pyridyl)methyl]amino]benzoic acid **699004-68-7P**
**699004-69-8P**, 3-[N-(3-Cyclobutyloxy-4-methoxyphenyl)-

N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699004-70-1P**, 3-[N-(3-Cyclopentyloxy-4-methoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]-5-fluorobenzoic acid **699004-71-2P**, 3-[N-[3,4-Bis(difluoromethoxy)phenyl]-N-[(1-oxo-3-pyridyl)methyl]amino]-5-fluorobenzoic acid **699004-72-3P**, 4-[N-(3-Cyclobutyloxy-4-methoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699004-76-7P**, 4-[N-(3-Ethoxy-4-methoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699004-81-4P**, 4-[N-(3-Isopropoxy-4-methoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699004-85-8P** **699004-88-1P**, N-[3,4-Bis(difluoromethoxy)phenyl]-4-[[[(4-fluorophenyl)sulfonyl]amino]carbonyl]-N-[(1-oxo-3-pyridyl)methyl]aniline **699004-91-6P** **699004-93-8P** **699004-94-9P** **699004-95-0P**, 3-[N-(3,4-Dimethoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699004-96-1P**, 3-[N-(3-Ethoxy-4-methoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699004-97-2P**, 3-[N-(3-Isopropoxy-4-methoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699004-98-3P**, 4-[[[(3,4-Difluorophenyl)sulfonyl]amino]carbonyl]-N-(3-ethoxy-4-methoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]aniline **699004-99-4P**, 3-[N-(4-Difluoromethoxy-3-ethoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699005-00-0P**, 4-[N-(4-Difluoromethoxy-3-ethoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699005-01-1P**, 3-[N-(4-Difluoromethoxy-3-methoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid
ROLE: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of N-oxides of heteroarylmethyl Ph amines as phosphodiesterase 4 inhibitors)

INDEX TERM: 6959-47-3, Picolyl chloride hydrochloride **699003-93-5**, 4-[(3-Cyclopentyloxy-4-methoxyphenyl)amino]pyridine **699003-96-8**, tert-Butyl 4-[N-(3-cyclopentyloxy-4-methoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzoate
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(preparation of N-oxides of heteroarylmethyl Ph amines as phosphodiesterase 4 inhibitors)

INDEX TERM: 82401-08-9P, 3-Chloromethylpyridine N-oxide
ROLE: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of N-oxides of heteroarylmethyl Ph amines as phosphodiesterase 4 inhibitors)

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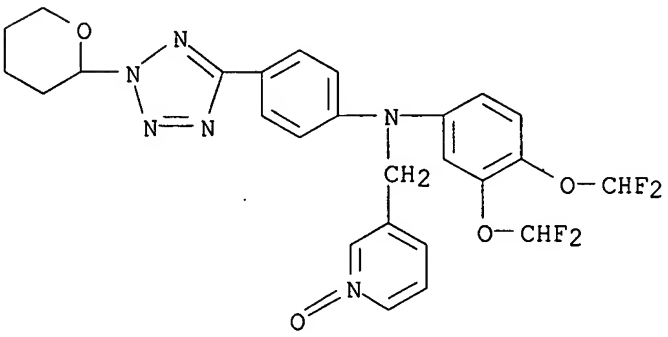
L6 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2005 ACS on STN
IT **699004-00-7P**, N-[3,4-Bis(difluoromethoxy)phenyl]-N-[(1-oxo-3-pyridyl)methyl]-4-[2-(tetrahydropyran-2-yl)-2H-tetrazol-5-yl]aniline
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of N-oxides of heteroarylmethyl Ph amines as phosphodiesterase

4 inhibitors)
RN 699004-00-7 HCAPLUS
CN 3-Pyridinemethanamine, N-[3,4-bis(difluoromethoxy)phenyl]-N-[4-[2-(tetrahydro-2H-pyran-2-yl)-2H-tetrazol-5-yl]phenyl]-, 1-oxide (9CI) (CA INDEX NAME)

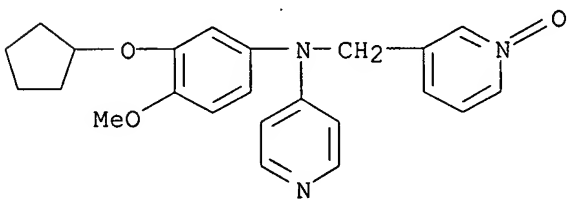


IT **699003-92-4P 699003-94-6P 699003-95-7P**, 4-[N-(3-Cyclopentyloxy-4-methoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699003-97-9P**, 3-[N-(3-Cyclopentyloxy-4-methoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699003-98-0P 699003-99-1P 699004-01-8P**, 3'-Chloro-3-cyclopentyloxy-4-methoxy-N-[(1-oxo-3-pyridyl)methyl]diphenylamine **699004-02-9P**, 3'-Chloro-4-methoxy-N-[(1-oxo-3-pyridyl)methyl]-3-[(tetrahydrofuran-3-yl)oxy]diphenylamine **699004-03-0P 699004-04-1P**, 4-Difluoromethoxy-N-[(1-oxo-3-pyridyl)methyl]-3-[(tetrahydrofuran-3-yl)oxy]diphenylamine **699004-05-2P**, 3,4-Bis(difluoromethoxy)-N-[(1-oxo-3-pyridyl)methyl]diphenylamine **699004-06-3P 699004-07-4P 699004-08-5P 699004-09-6P**, 4'-tert-Butyldimethylsilyloxy-3-cyclopentyloxy-4-methoxy-N-[(1-oxo-3-pyridyl)methyl]diphenylamine **699004-10-9P**, 3-[N-(3-Cyclopentyloxy-4-difluoromethoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699004-11-0P**, 3-[N-[4-Methoxy-3-[(tetrahydrofuran-3-yl)oxy]phenyl]-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699004-12-1P 699004-13-2P**, 4-[N-(3-Cyclopropylmethoxy-4-methoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699004-14-3P**, 3-[N-(3-Cyclopropylmethoxy-4-difluoromethoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699004-15-4P**, 3-[N-[3-[3-(4-Chlorophenyl)propoxy]-4-methoxyphenyl]-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699004-16-5P**, 3-[N-(3-Cyclopropylmethoxy-4-methoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699004-17-6P**, 3-[N-[3-(2-Indanyloxy)-4-methoxyphenyl]-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699004-18-7P**, 3-[N-[3-(2-Methoxyethoxy)-4-methoxyphenyl]-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699004-19-8P**, 3-Cyclopropylmethyloxy-4-difluoromethoxy-N-[(1-oxo-3-pyridyl)methyl]-4'-(2H-tetrazol-5-yl)diphenylamine **699004-20-1P**, 3-Cyclopentyloxy-4-methoxy-N-[(1-oxo-3-pyridyl)methyl]-4'-(2H-tetrazol-5-yl)diphenylamine **699004-21-2P**, 3-Cyclopentyloxy-4-methoxy-N-[(1-oxo-3-pyridyl)methyl]-3'-(2H-tetrazol-5-yl)diphenylamine **699004-22-3P**, (R)-4-Methoxy-N-[(1-oxo-3-pyridyl)methyl]-3-((tetrahydrofuran-3-yl)oxy)-4'-(2H-tetrazol-5-yl)diphenylamine

**699004-23-4P**, 3-Cyclopropylmethyloxy-4-methoxy-N-[(1-oxo-3-pyridyl)methyl]-4'-(2H-tetrazol-5-yl)diphenylamine **699004-24-5P**, (R)-4-Difluoromethoxy-N-[(1-oxo-3-pyridyl)methyl]-3-((tetrahydrofuran-3-yl)oxy)-4'-(2H-tetrazol-5-yl)diphenylamine **699004-25-6P**, 3-Cyclopentyloxy-4-difluoromethoxy-N-[(1-oxo-3-pyridyl)methyl]-4'-(2H-tetrazol-5-yl)diphenylamine **699004-26-7P**, 3-Cyclopropylmethyloxy-4-difluoromethoxy-N-[(1-oxo-3-pyridyl)methyl]-3'-(2H-tetrazol-5-yl)diphenylamine **699004-27-8P**, 3,4-Bis(difluoromethoxy)-N-[(1-oxo-3-pyridyl)methyl]-4'-(2H-tetrazol-5-yl)diphenylamine **699004-28-9P**, N-(3-Cyclopentyloxy-4-methoxyphenyl)-N-(3-pyridyl)-N-[(1-oxo-3-pyridyl)methyl]amine **699004-29-0P**, N-(3-Cyclopentyloxy-4-difluoromethoxyphenyl)-N-(3-pyridyl)-N-[(1-oxo-3-pyridyl)methyl]amine **699004-30-3P**, N-(3-((Cyclopropyl)methoxy)-4-difluoromethoxyphenyl)-N-(3-pyridyl)-N-[(1-oxo-3-pyridyl)methyl]amine **699004-31-4P 699004-32-5P**, 3-Cyclopentyloxy-3'-[(ethanesulfonyl)amino]-4-methoxy-N-[(1-oxo-3-pyridyl)methyl]diphenylamine **699004-33-6P**, 3-Cyclopentyloxy-4-methoxy-3'-[(propanesulfonyl)amino]-N-[(1-oxo-3-pyridyl)methyl]diphenylamine **699004-34-7P**, 3-Cyclopentyloxy-4'-[(ethanesulfonyl)amino]-4-methoxy-N-[(1-oxo-3-pyridyl)methyl]diphenylamine **699004-35-8P**, 3-Cyclopentyloxy-4-methoxy-4'-[(propanesulfonyl)amino]-N-((1-oxo-3-pyridyl)methyl)diphenylamine **699004-36-9P**, 3-Cyclopropylmethoxy-3'-[(ethanesulfonyl)amino]-4-methoxy-N-[(1-oxo-3-pyridyl)methyl]diphenylamine **699004-37-0P 699004-38-1P** , 4-Methoxy-3-[2-(2-pyridyl)ethoxy]-N-[(1-oxo-3-pyridyl)methyl]diphenylamine **699004-39-2P 699004-40-5P** , 3'-Chloro-4-methoxy-3-[2-(2-pyridyl)ethoxy]-N-[(1-oxo-3-pyridyl)methyl]diphenylamine **699004-41-6P**, 3-Cyclopentyloxy-4-methoxy-4'-[(5-oxopyrrolidinyl)methoxy]-N-[(1-oxo-3-pyridyl)methyl]diphenylamine **699004-42-7P**, 3-Cyclopentyloxy-4-methoxy-N-[3-(aminocarbonyl)phenyl]-N-[(1-oxo-3-pyridyl)methyl]aniline **699004-43-8P**, 3,4-Bis(difluoromethoxy)-N-(3-carboxy-4-chlorophenyl)-N-[(1-oxo-3-pyridyl)methyl]aniline **699004-44-9P**, 3,4-Bis(difluoromethoxy)-N-[4-(pyrrol-1-yl)phenyl]-N-[(1-oxo-3-pyridyl)methyl]aniline **699004-45-0P 699004-46-1P 699004-47-2P 699004-48-3P**, 3-Cyclopentyloxy-4-methoxy-N-(4-carboxy-3-chlorophenyl)-N-[(1-oxo-3-pyridyl)methyl]aniline **699004-49-4P**, 2-Acetyl-7-methoxy-4-[N-(4-cyanophenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzofuran **699004-50-7P**, 2-Acetyl-7-methoxy-4-[N-phenyl-N-[(1-oxo-4-pyridyl)methyl]amino]benzofuran **699004-51-8P**, 2-Acetyl-7-methoxy-4-[N-(3-carboxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzofuran **699004-52-9P**, 1-Cyclopentyl-3-ethyl-6-[N-(3-carboxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]indazole **699004-53-0P**, 2-Acetyl-7-methoxy-4-[N-(4-acetylphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzofuran **699004-54-1P 699004-55-2P 699004-56-3P 699004-57-4P**, 3-[N-(3-Cyclopentyloxy-4-methoxyphenyl)-N-[(1-oxo-2-pyridyl)methyl]amino]benzoic acid **699004-58-5P 699004-59-6P 699004-60-9P 699004-61-0P 699004-62-1P 699004-63-2P 699004-64-3P 699004-65-4P 699004-66-5P**, 3-[N-(3-Cyclopentyloxy-4-methoxyphenyl)-N-[(5-fluoro-1-oxo-3-pyridyl)methyl]amino]benzoic acid **699004-67-6P**, 4-[N-(3-Cyclopentyloxy-4-methoxyphenyl)-N-[(5-fluoro-1-oxo-3-pyridyl)methyl]amino]benzoic acid **699004-68-7P 699004-69-8P**, 3-[N-(3-Cyclobutyloxy-4-methoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699004-70-1P**, 3-[N-(3-Cyclopentyloxy-4-methoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]-5-fluorobenzoic acid **699004-71-2P**, 3-[N-[3,4-Bis(difluoromethoxy)phenyl]-N-[(1-oxo-3-pyridyl)methyl]amino]-5-

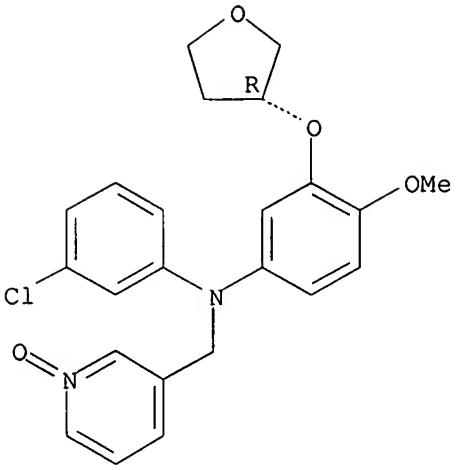
fluorobenzoic acid **699004-72-3P**, 4-[N-(3-Cyclobutyloxy-4-methoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699004-76-7P**, 4-[N-(3-Ethoxy-4-methoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699004-81-4P**, 4-[N-(3-Isopropoxy-4-methoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699004-85-8P** **699004-88-1P**, N-[3,4-Bis(difluoromethoxy)phenyl]-4-[[[(4-fluorophenyl)sulfonyl]amino]carbonyl]-N-[(1-oxo-3-pyridyl)methyl]aniline **699004-91-6P** **699004-93-8P** **699004-94-9P** **699004-95-0P**, 3-[N-(3,4-Dimethoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699004-96-1P**, 3-[N-(3-Ethoxy-4-methoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699004-97-2P**, 3-[N-(3-Isopropoxy-4-methoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699004-98-3P**, 4-[[[(3,4-Difluorophenyl)sulfonyl]amino]carbonyl]-N-(3-ethoxy-4-methoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]aniline **699004-99-4P**, 3-[N-(4-Difluoromethoxy-3-ethoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699005-00-0P**, 4-[N-(4-Difluoromethoxy-3-ethoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid **699005-01-1P**, 3-[N-(4-Difluoromethoxy-3-methoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzoic acid
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of N-oxides of heteroarylmethyl Ph amines as phosphodiesterase 4 inhibitors)

RN 699003-92-4 HCAPLUS
CN 3-Pyridinemethanamine, N-[3-(cyclopentyloxy)-4-methoxyphenyl]-N-4-pyridinyl-, 1-oxide (9CI) (CA INDEX NAME)

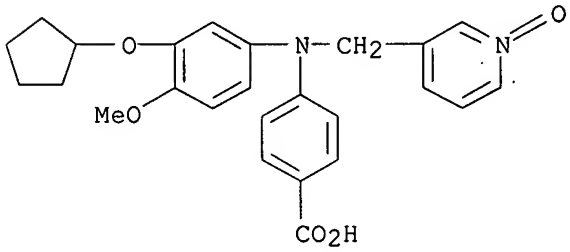



RN 699003-94-6 HCAPLUS
CN 3-Pyridinemethanamine, N-(3-chlorophenyl)-N-[4-methoxy-3-[[(3R)-tetrahydro-3-furanyl]oxy]phenyl]-, 1-oxide (9CI) (CA INDEX NAME)

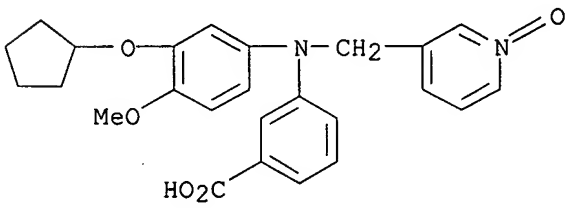
Absolute stereochemistry.



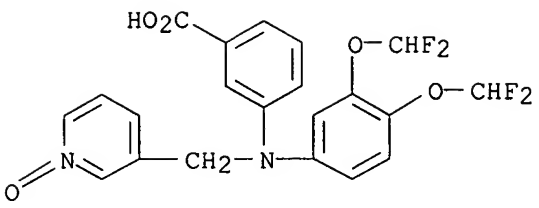
RN 699003-95-7 HCAPLUS
CN Benzoic acid, 4-[[3-(cyclopentyloxy)-4-methoxyphenyl][(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)



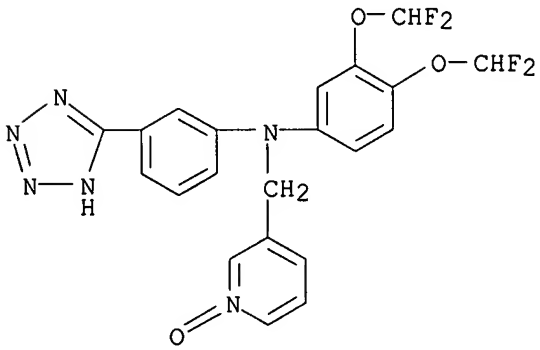
RN 699003-97-9 HCAPLUS
CN Benzoic acid, 3-[[3-(cyclopentyloxy)-4-methoxyphenyl][(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)



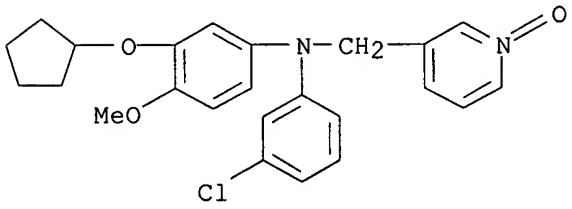
RN 699003-98-0 HCAPLUS
CN Benzoic acid, 3-[[3,4-bis(difluoromethoxy)phenyl][(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)



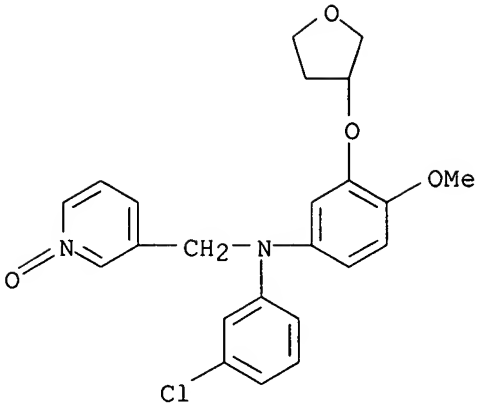
RN 699003-99-1 HCAPLUS
CN 3-Pyridinemethanamine, N-[3,4-bis(difluoromethoxy)phenyl]-N-[3-(1H-tetrazol-5-yl)phenyl]-, 1-oxide (9CI) (CA INDEX NAME)



RN 699004-01-8 HCAPLUS
CN 3-Pyridinemethanamine, N-(3-chlorophenyl)-N-[3-(cyclopentyloxy)-4-methoxyphenyl]-, 1-oxide (9CI) (CA INDEX NAME)

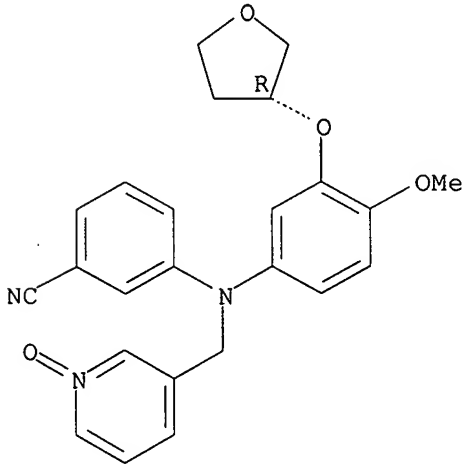


RN 699004-02-9 HCAPLUS
CN 3-Pyridinemethanamine, N-(3-chlorophenyl)-N-[4-methoxy-3-[(tetrahydro-3-furanyl)oxy]phenyl]-, 1-oxide (9CI) (CA INDEX NAME)

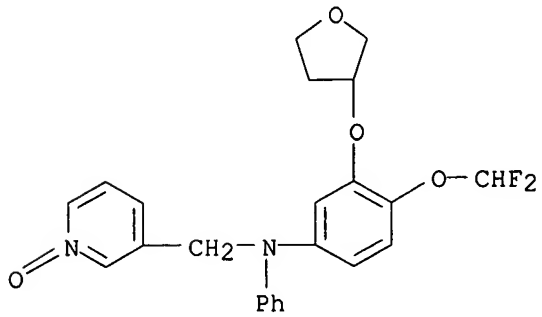


RN 699004-03-0 HCAPLUS
CN Benzonitrile, 3-[[4-methoxy-3-[[(3R)-tetrahydro-3-furanyl]oxy]phenyl][(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)

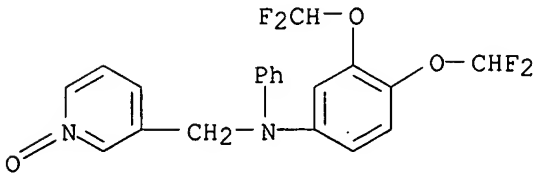
Absolute stereochemistry.



RN 699004-04-1 HCAPLUS
CN 3-Pyridinemethanamine, N-[4-(difluoromethoxy)-3-[(tetrahydro-3-furanyl)oxy]phenyl]-N-phenyl-, 1-oxide (9CI) (CA INDEX NAME)

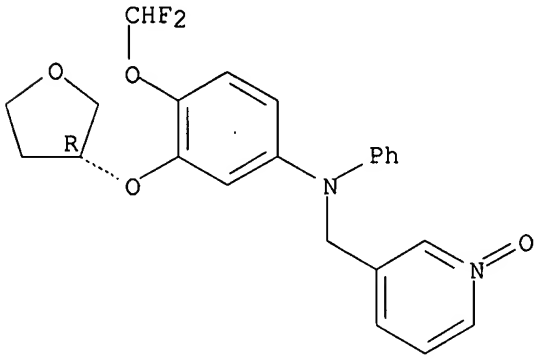


RN 699004-05-2 HCAPLUS
CN 3-Pyridinemethanamine, N-[3,4-bis(difluoromethoxy)phenyl]-N-phenyl-, 1-oxide (9CI) (CA INDEX NAME)



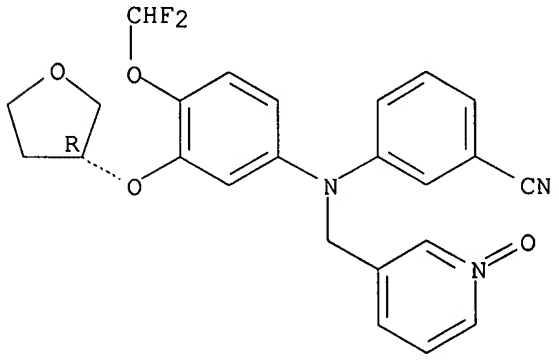
RN 699004-06-3 HCAPLUS
CN 3-Pyridinemethanamine, N-[4-(difluoromethoxy)-3-[[(3R)-tetrahydro-3-furanyl]oxy]phenyl]-N-phenyl-, 1-oxide (9CI) (CA INDEX NAME)

Absolute stereochemistry.



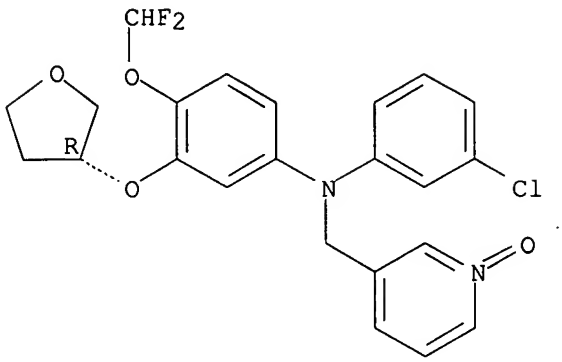
RN 699004-07-4 HCAPLUS
CN Benzonitrile, 3-[[4-(difluoromethoxy)-3-[[(3R)-tetrahydro-3-furanyl]oxy]phenyl][(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

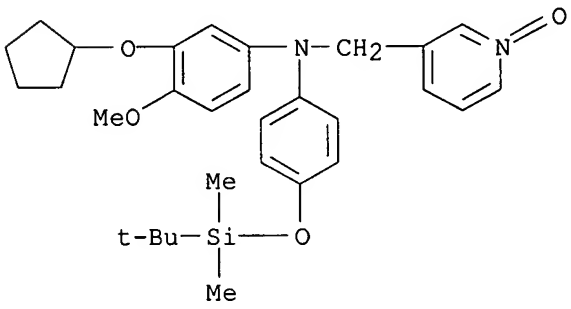


RN 699004-08-5 HCAPLUS
CN 3-Pyridinemethanamine, N-(3-chlorophenyl)-N-[4-(difluoromethoxy)-3-[[(3R)-tetrahydro-3-furanyl]oxy]phenyl]-, 1-oxide (9CI) (CA INDEX NAME)

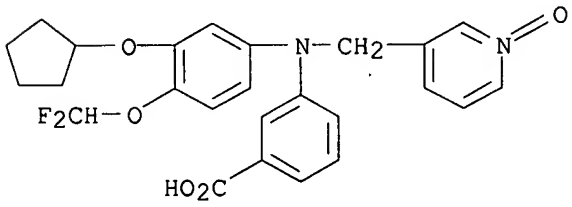
Absolute stereochemistry.



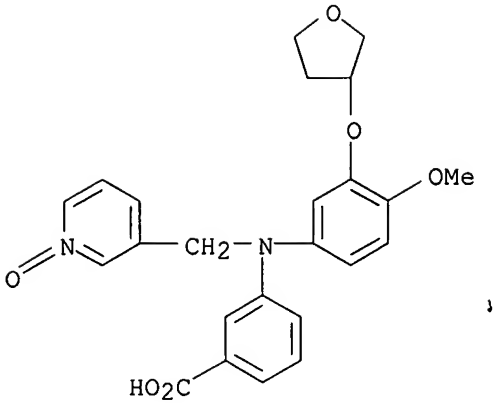
RN 699004-09-6 HCAPLUS
CN 3-Pyridinemethanamine, N-[3-(cyclopentyloxy)-4-methoxyphenyl]-N-[4-[[(1,1-dimethylethyl)dimethylsilyl]oxy]phenyl]-, 1-oxide (9CI) (CA INDEX NAME)



RN 699004-10-9 HCAPLUS
CN Benzoic acid, 3-[[3-(cyclopentyloxy)-4-(difluoromethoxy)phenyl][(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)

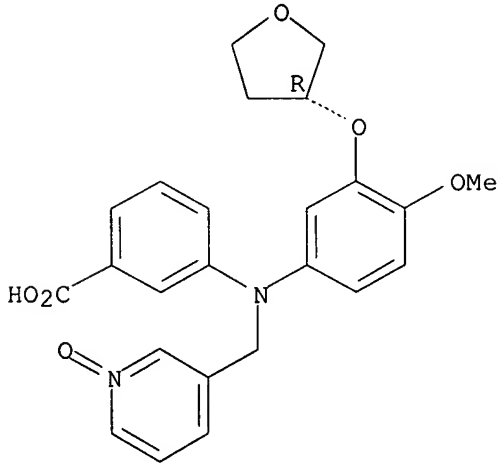


RN 699004-11-0 HCAPLUS
CN Benzoic acid, 3-[[4-methoxy-3-[(tetrahydro-3-furanyl)oxy]phenyl][(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)

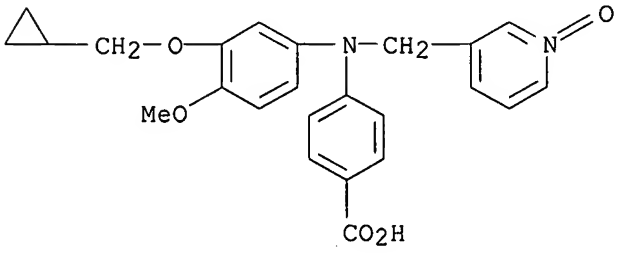


RN 699004-12-1 HCAPLUS
CN Benzoic acid, 3-[[4-methoxy-3-[[(3R)-tetrahydro-3-furanyl]oxy]phenyl][(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

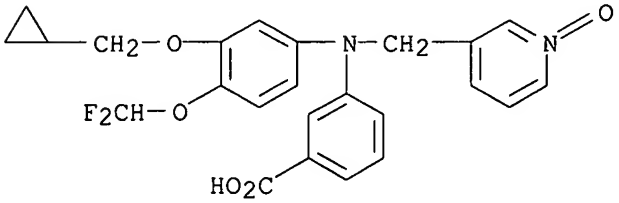


RN 699004-13-2 HCAPLUS
CN Benzoic acid, 4-[[3-(cyclopropylmethoxy)-4-methoxyphenyl][(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)

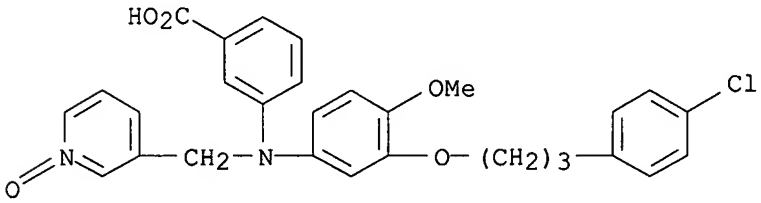


RN 699004-14-3 HCAPLUS

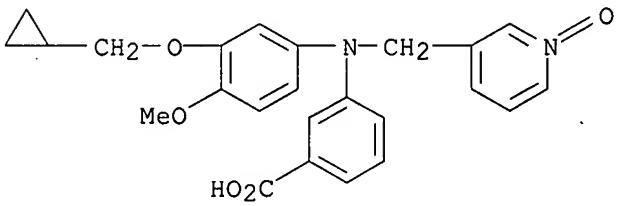
CN Benzoic acid, 3-[[3-(cyclopropylmethoxy)-4-(difluoromethoxy)phenyl][(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)



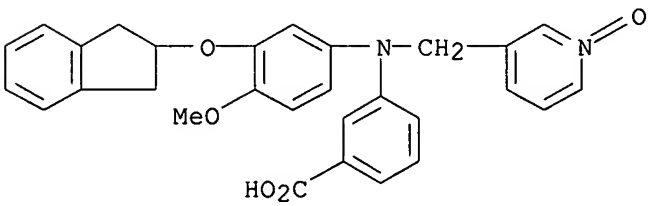
RN 699004-15-4 HCAPLUS
CN Benzoic acid, 3-[[3-[3-(4-chlorophenyl)propoxy]-4-methoxyphenyl][(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)



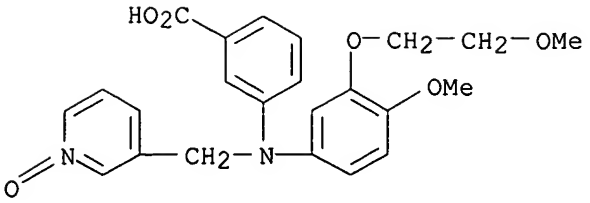
RN 699004-16-5 HCAPLUS
CN Benzoic acid, 3-[[3-(cyclopropylmethoxy)-4-methoxyphenyl][(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)



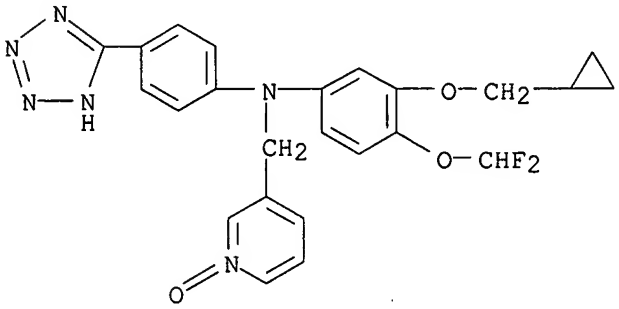
RN 699004-17-6 HCAPLUS
CN Benzoic acid, 3-[[3-[(2,3-dihydro-1H-inden-2-yl)oxy]-4-methoxyphenyl][(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)



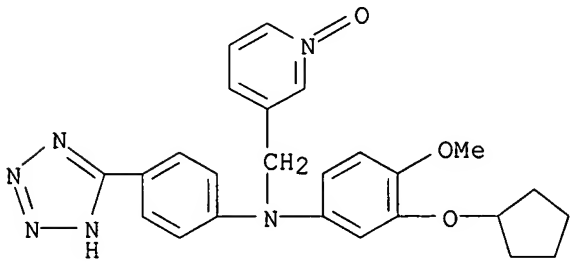
RN 699004-18-7 HCAPLUS
CN Benzoic acid, 3-[[4-methoxy-3-(2-methoxyethoxy)phenyl][(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)



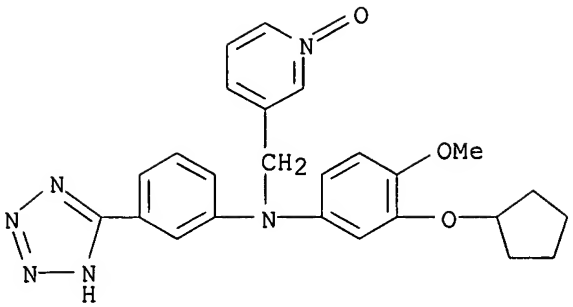
RN 699004-19-8 HCAPLUS
CN 3-Pyridinemethanamine, N-[3-(cyclopropylmethoxy)-4-(difluoromethoxy)phenyl]-N-[4-(1H-tetrazol-5-yl)phenyl]-, 1-oxide (9CI) (CA INDEX NAME)



RN 699004-20-1 HCAPLUS
CN 3-Pyridinemethanamine, N-[3-(cyclopentyloxy)-4-methoxyphenyl]-N-[4-(1H-tetrazol-5-yl)phenyl]-, 1-oxide (9CI) (CA INDEX NAME)

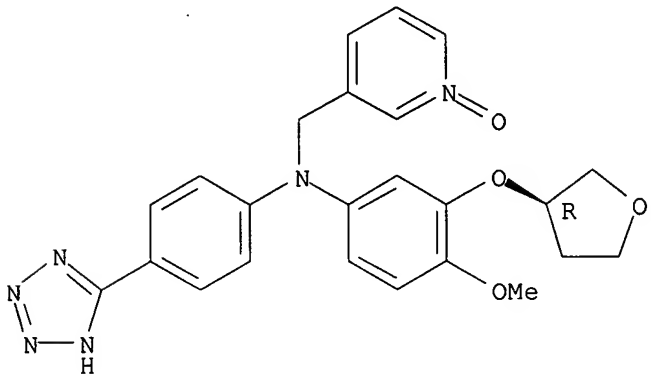


RN 699004-21-2 HCAPLUS
CN 3-Pyridinemethanamine, N-[3-(cyclopentyloxy)-4-methoxyphenyl]-N-[3-(1H-tetrazol-5-yl)phenyl]-, 1-oxide (9CI) (CA INDEX NAME)

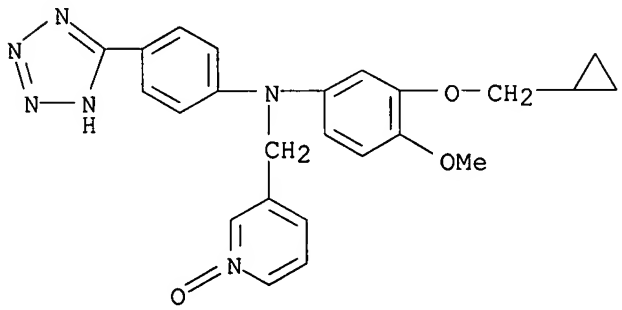


RN 699004-22-3 HCAPLUS
CN 3-Pyridinemethanamine, N-[4-methoxy-3-[[(3R)-tetrahydro-3-furanyl]oxy]phenyl]-N-[4-(1H-tetrazol-5-yl)phenyl]-, 1-oxide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

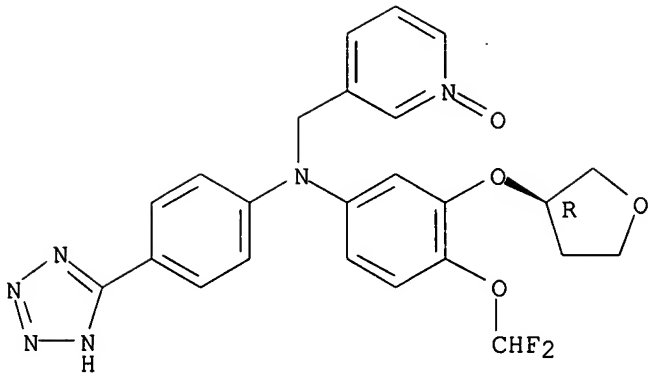


RN 699004-23-4 HCAPLUS
CN 3-Pyridinemethanamine, N-[3-(cyclopropylmethoxy)-4-methoxyphenyl]-N-[4-(1H-tetrazol-5-yl)phenyl]-, 1-oxide (9CI) (CA INDEX NAME)

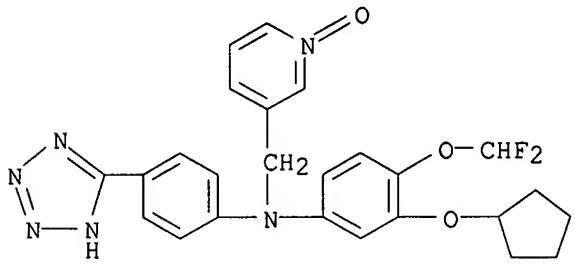


RN 699004-24-5 HCAPLUS
CN 3-Pyridinemethanamine, N-[4-(difluoromethoxy)-3-[[(3R)-tetrahydro-3-furanyl]oxy]phenyl]-N-[4-(1H-tetrazol-5-yl)phenyl]-, 1-oxide (9CI) (CA INDEX NAME)

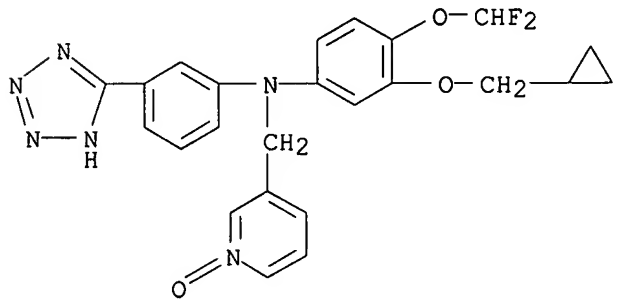
Absolute stereochemistry.



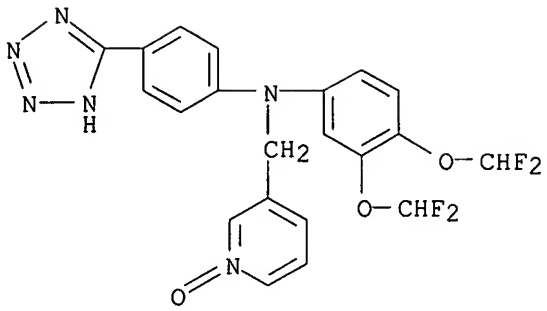
RN 699004-25-6 HCAPLUS
CN 3-Pyridinemethanamine, N-[3-(cyclopentyloxy)-4-(difluoromethoxy)phenyl]-N-[4-(1H-tetrazol-5-yl)phenyl]-, 1-oxide (9CI) (CA INDEX NAME)



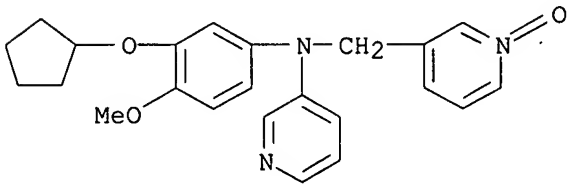
RN 699004-26-7 HCAPLUS
CN 3-Pyridinemethanamine, N-[3-(cyclopropylmethoxy)-4-(difluoromethoxy)phenyl]-N-[3-(1H-tetrazol-5-yl)phenyl]-, 1-oxide (9CI) (CA INDEX NAME)



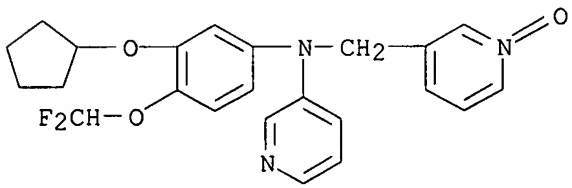
RN 699004-27-8 HCAPLUS
CN 3-Pyridinemethanamine, N-[3,4-bis(difluoromethoxy)phenyl]-N-[4-(1H-tetrazol-5-yl)phenyl]-, 1-oxide (9CI) (CA INDEX NAME)



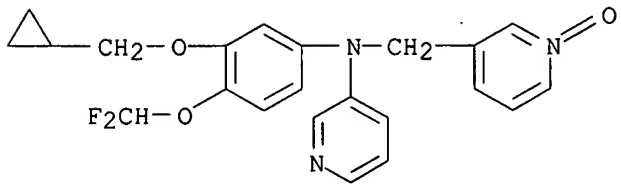
RN 699004-28-9 HCAPLUS
CN 3-Pyridinemethanamine, N-[3-(cyclopentyloxy)-4-methoxyphenyl]-N-3-pyridinyl-, 1-oxide (9CI) (CA INDEX NAME)



RN 699004-29-0 HCAPLUS
CN 3-Pyridinemethanamine, N-[3-(cyclopentyloxy)-4-(difluoromethoxy)phenyl]-N-3-pyridinyl-, 1-oxide (9CI) (CA INDEX NAME)

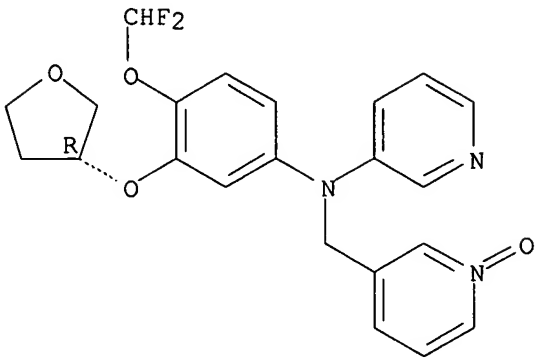


RN 699004-30-3 HCAPLUS
CN 3-Pyridinemethanamine, N-[3-(cyclopropylmethoxy)-4-(difluoromethoxy)phenyl]-N-3-pyridinyl-, 1-oxide (9CI) (CA INDEX NAME)

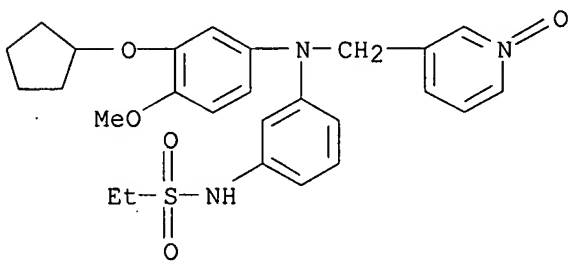


RN 699004-31-4 HCAPLUS
CN 3-Pyridinemethanamine, N-[4-(difluoromethoxy)-3-[[(3R)-tetrahydro-3-furanyl]oxy]phenyl]-N-3-pyridinyl-, 1-oxide (9CI) (CA INDEX NAME)

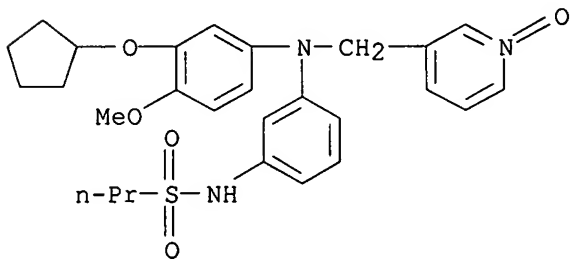
Absolute stereochemistry.



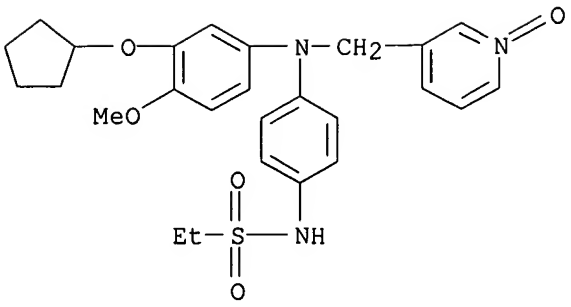
RN 699004-32-5 HCAPLUS
CN Ethanesulfonamide, N-[3-[[3-(cyclopentyloxy)-4-methoxyphenyl][(1-oxido-3-pyridinyl)methyl]amino]phenyl]- (9CI) (CA INDEX NAME)



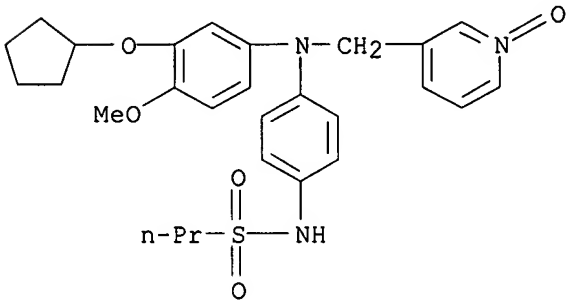
RN 699004-33-6 HCAPLUS
CN 1-Propanesulfonamide, N-[3-[[3-(cyclopentyloxy)-4-methoxyphenyl][(1-oxido-3-pyridinyl)methyl]amino]phenyl]- (9CI) (CA INDEX NAME)



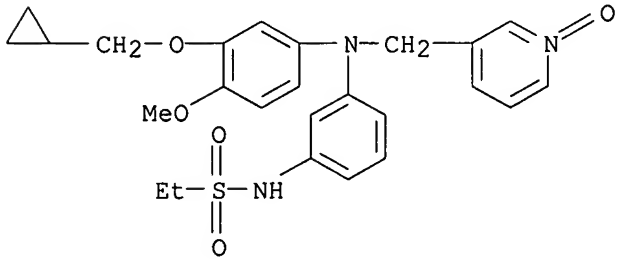
RN 699004-34-7 HCAPLUS
CN Ethanesulfonamide, N-[4-[[3-(cyclopentyloxy)-4-methoxyphenyl][(1-oxido-3-pyridinyl)methyl]amino]phenyl]- (9CI) (CA INDEX NAME)



RN 699004-35-8 HCAPLUS
CN 1-Propanesulfonamide, N-[4-[[3-(cyclopentyloxy)-4-methoxyphenyl][(1-oxido-3-pyridinyl)methyl]amino]phenyl]- (9CI) (CA INDEX NAME)

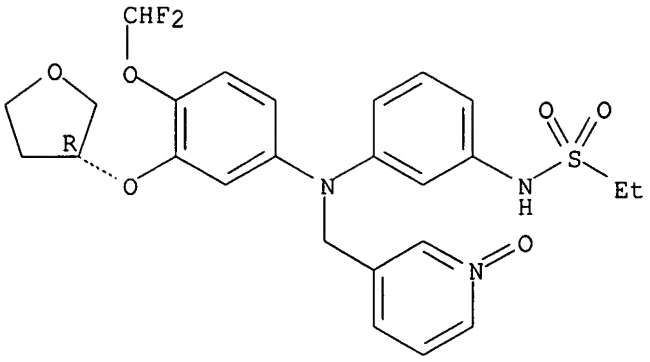


RN 699004-36-9 HCAPLUS
CN Ethanesulfonamide, N-[3-[[3-(cyclopropylmethoxy)-4-methoxyphenyl][(1-oxido-3-pyridinyl)methyl]amino]phenyl]- (9CI) (CA INDEX NAME)

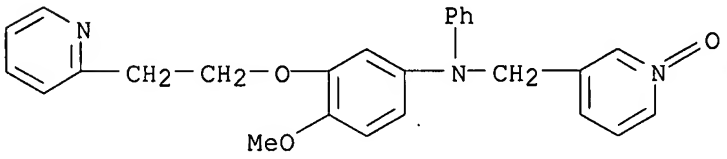


RN 699004-37-0 HCAPLUS
CN Ethanesulfonamide, N-[3-[[4-(difluoromethoxy)-3-[[(3R)-tetrahydro-3-furanyl]oxy]phenyl][(1-oxido-3-pyridinyl)methyl]amino]phenyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

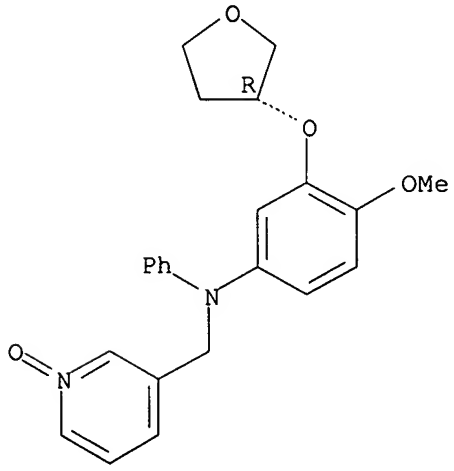


RN 699004-38-1 HCAPLUS
CN 3-Pyridinemethanamine, N-[4-methoxy-3-[2-(2-pyridinyl)ethoxy]phenyl]-N-phenyl-, 1-oxide (9CI) (CA INDEX NAME)

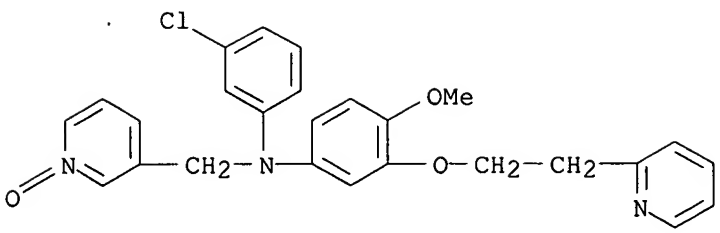


RN 699004-39-2 HCAPLUS
CN 3-Pyridinemethanamine, N-[4-methoxy-3-[[(3R)-tetrahydro-3-furanyl]oxy]phenyl]-N-phenyl-, 1-oxide (9CI) (CA INDEX NAME)

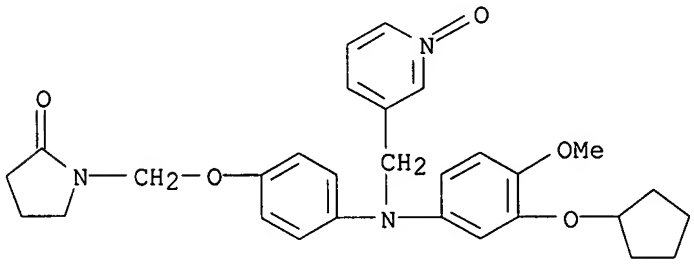
Absolute stereochemistry.



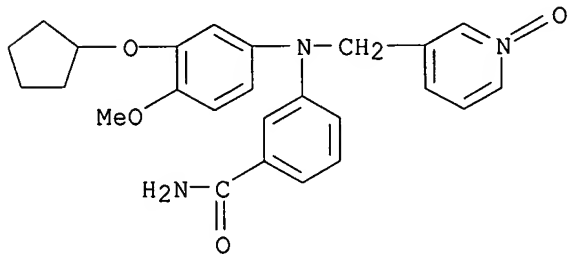
RN 699004-40-5 HCAPLUS
CN 3-Pyridinemethanamine, N-(3-chlorophenyl)-N-[4-methoxy-3-[2-(2-pyridinyl)ethoxy]phenyl]-, 1-oxide (9CI) (CA INDEX NAME)



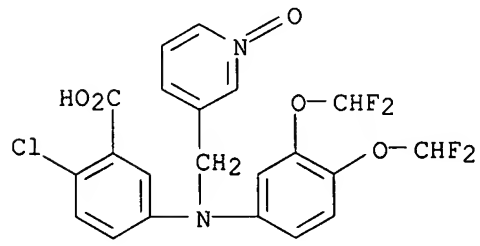
RN 699004-41-6 HCAPLUS
CN 2-Pyrrolidinone, 1-[[4-[[3-(cyclopentyloxy)-4-methoxyphenyl][(1-oxido-3-pyridinyl)methyl]amino]phenoxy]methyl]- (9CI) (CA INDEX NAME)



RN 699004-42-7 HCAPLUS
CN Benzamide, 3-[[3-(cyclopentyloxy)-4-methoxyphenyl][(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)

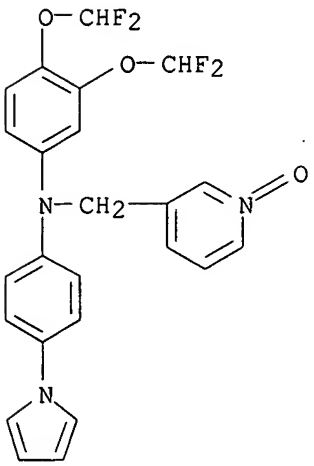


RN 699004-43-8 HCAPLUS
CN Benzoic acid, 5-[[3,4-bis(difluoromethoxy)phenyl][(1-oxido-3-pyridinyl)methyl]amino]-2-chloro- (9CI) (CA INDEX NAME)



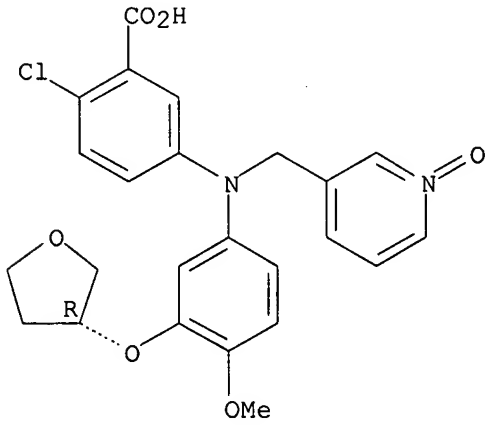
RN 699004-44-9 HCAPLUS

CN 3-Pyridinemethanamine, N-[3,4-bis(difluoromethoxy)phenyl]-N-[4-(1H-pyrrol-1-yl)phenyl]-, 1-oxide (9CI) (CA INDEX NAME)



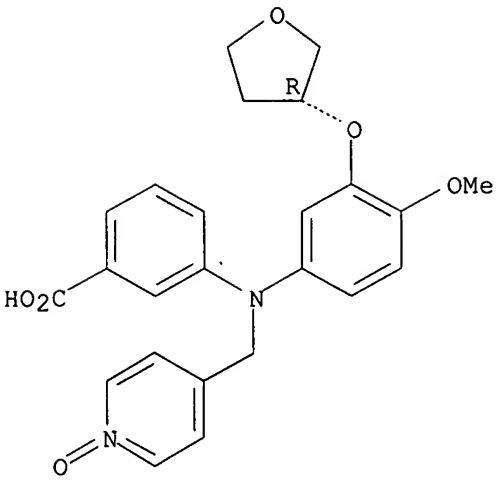
RN 699004-45-0 HCAPLUS
CN Benzoic acid, 2-chloro-5-[[4-methoxy-3-[[(3R)-tetrahydro-3-furanyl]oxy]phenyl][(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



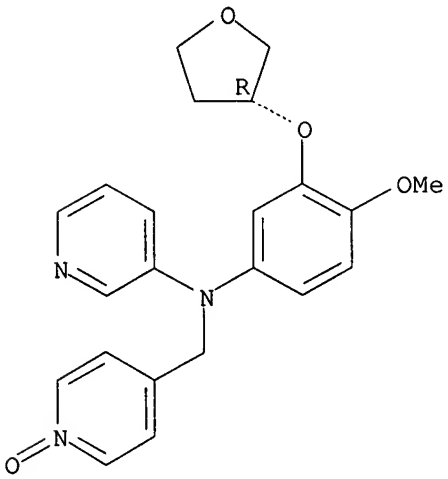
RN 699004-46-1 HCAPLUS
CN Benzoic acid, 3-[[4-methoxy-3-[[(3R)-tetrahydro-3-furanyl]oxy]phenyl][(1-oxido-4-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

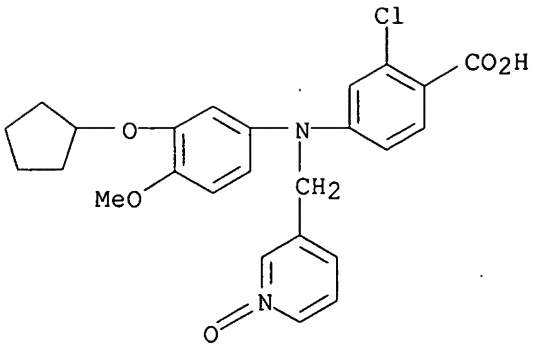


RN 699004-47-2 HCAPLUS
CN 4-Pyridinemethanamine, N-[4-methoxy-3-[[(3R)-tetrahydro-3-furanyl]oxy]phenyl]-N-3-pyridinyl-, 1-oxide (9CI) (CA INDEX NAME)

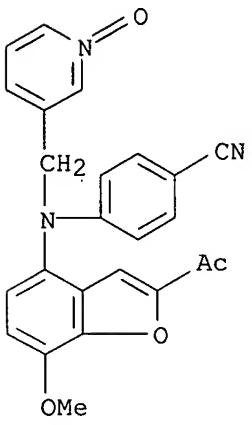
Absolute stereochemistry.



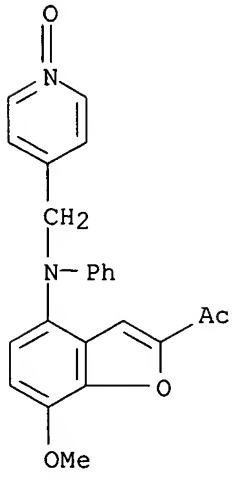
RN 699004-48-3 HCAPLUS
CN Benzoic acid, 2-chloro-4-[[3-(cyclopentyloxy)-4-methoxyphenyl][(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)



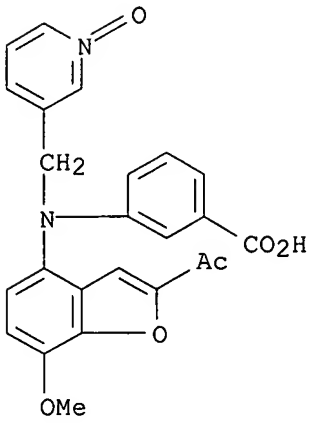

RN 699004-49-4 HCAPLUS
CN Benzonitrile, 4-[(2-acetyl-7-methoxy-4-benzofuranyl)[(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)



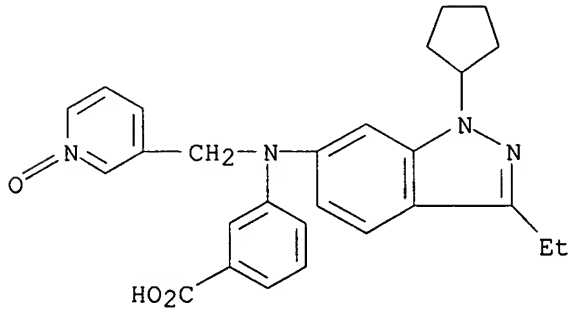

RN 699004-50-7 HCAPLUS
CN Ethanone, 1-[7-methoxy-4-[[(1-oxido-4-pyridinyl)methyl]phenylamino]-2-benzofuranyl]- (9CI) (CA INDEX NAME)



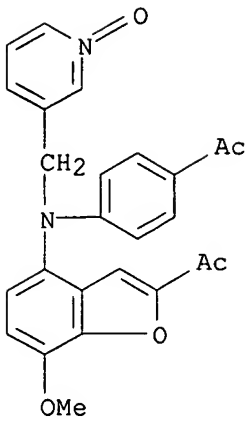
RN 699004-51-8 HCAPLUS
CN Benzoic acid, 3-[(2-acetyl-7-methoxy-4-benzofuranyl)[(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)



RN 699004-52-9 HCAPLUS
CN Benzoic acid, 3-[(1-cyclopentyl-3-ethyl-1H-indazol-6-yl)[(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)

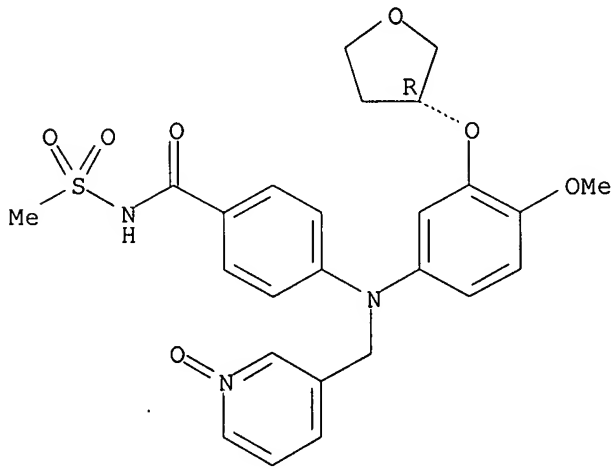


RN 699004-53-0 HCAPLUS
CN Ethanone, 1-[4-[(2-acetyl-7-methoxy-4-benzofuranyl)[(1-oxido-3-pyridinyl)methyl]amino]phenyl]- (9CI) (CA INDEX NAME)



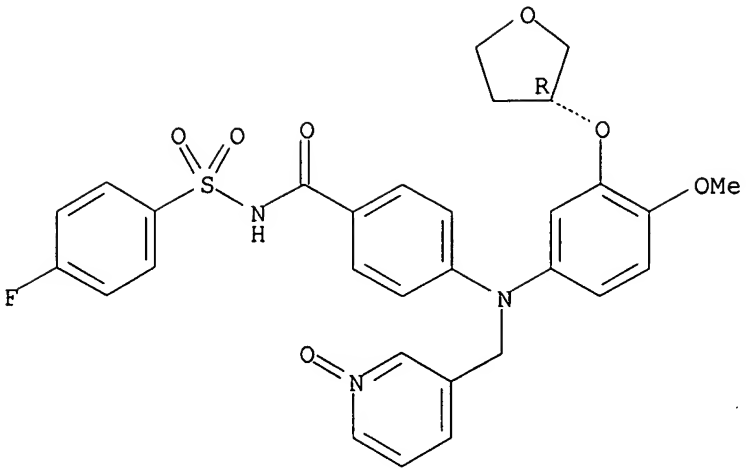
RN 699004-54-1 HCAPLUS
CN Benzamide, 4-[[4-methoxy-3-[[(3R)-tetrahydro-3-furanyl]oxy]phenyl][(1-oxido-3-pyridinyl)methyl]amino]-N-(methylsulfonyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



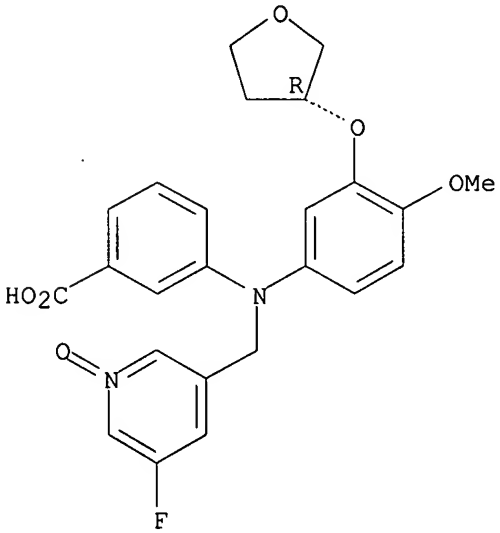
RN 699004-55-2 HCAPLUS
CN Benzamide, N-[(4-fluorophenyl)sulfonyl]-4-[[4-methoxy-3-[[(3R)-tetrahydro-3-furanyl]oxy]phenyl][(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

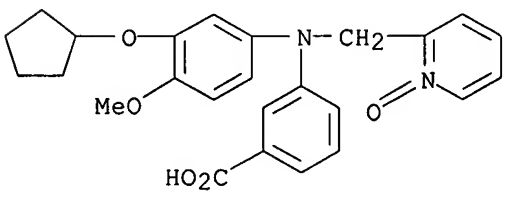


RN 699004-56-3 HCAPLUS
CN Benzoic acid, 3-[[(5-fluoro-1-oxido-3-pyridinyl)methyl][4-methoxy-3-[[(3R)-tetrahydro-3-furanyl]oxy]phenyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

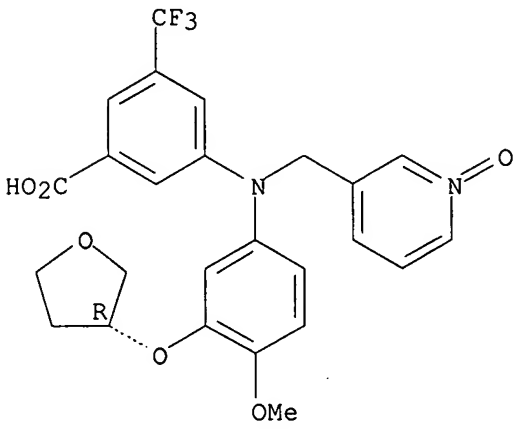


RN 699004-57-4 HCAPLUS
CN Benzoic acid, 3-[[3-(cyclopentyloxy)-4-methoxyphenyl][(1-oxido-2-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)



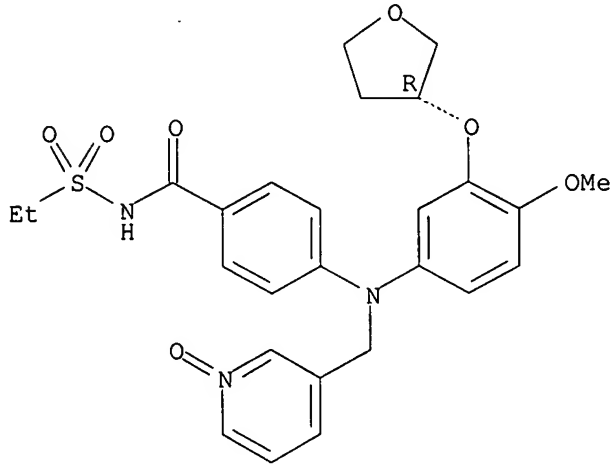
RN 699004-58-5 HCAPLUS
CN Benzoic acid, 3-[[4-methoxy-3-[[(3R)-tetrahydro-3-furanyl]oxy]phenyl][(1-oxido-3-pyridinyl)methyl]amino]-5-(trifluoromethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



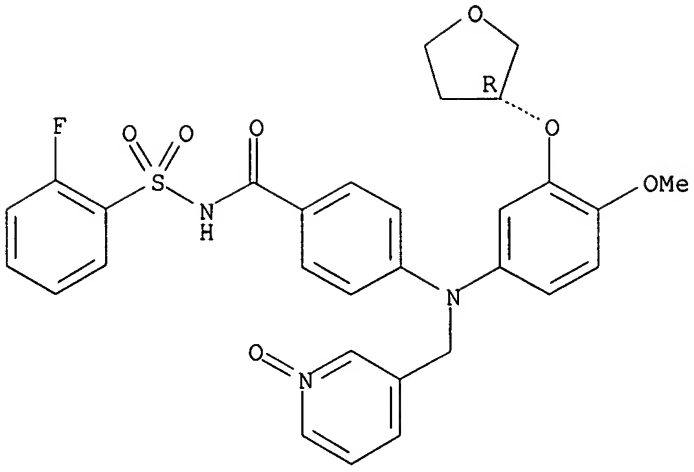
RN 699004-59-6 HCAPLUS
CN Benzamide, N-(ethylsulfonyl)-4-[[4-methoxy-3-[[(3R)-tetrahydro-3-furanyl]oxy]phenyl][(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



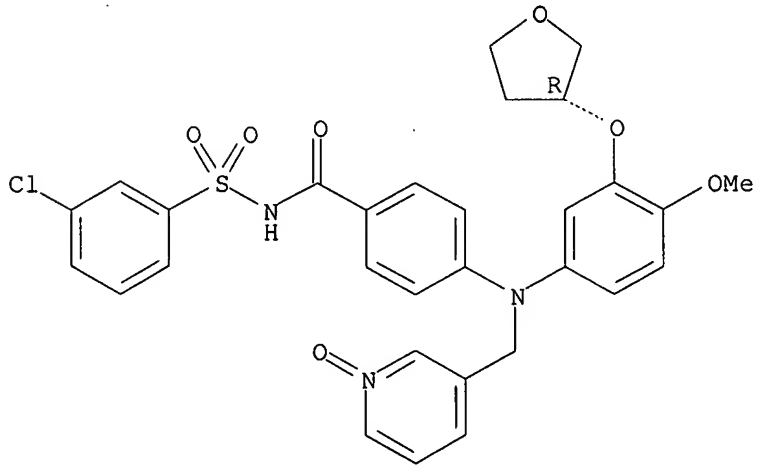
RN 699004-60-9 HCAPLUS
CN Benzamide, N-[(2-fluorophenyl)sulfonyl]-4-[[4-methoxy-3-[[(3R)-tetrahydro-3-furanyl]oxy]phenyl][(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



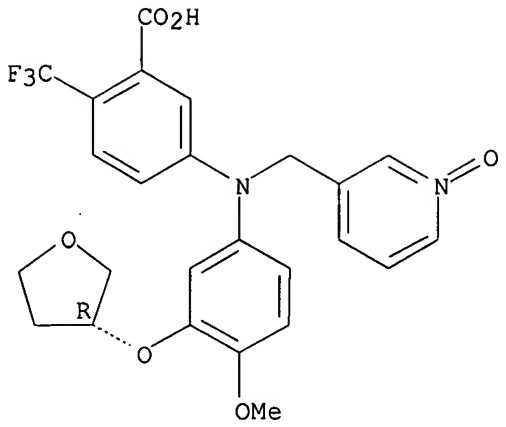
RN 699004-61-0 HCAPLUS
CN Benzamide, N-[(3-chlorophenyl)sulfonyl]-4-[[4-methoxy-3-[[(3R)-tetrahydro-3-furanyl]oxy]phenyl][(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



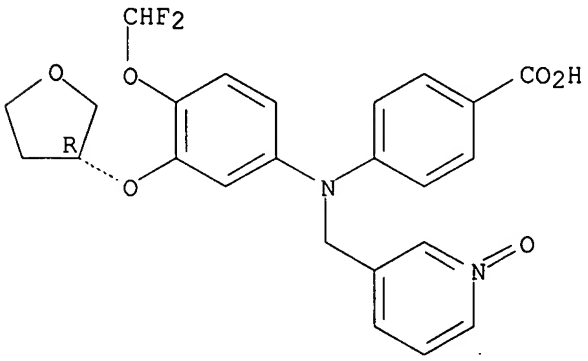
RN 699004-62-1 HCAPLUS
CN Benzoic acid, 5-[[4-methoxy-3-[[(3R)-tetrahydro-3-furanyl]oxy]phenyl][(1-oxido-3-pyridinyl)methyl]amino]-2-(trifluoromethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



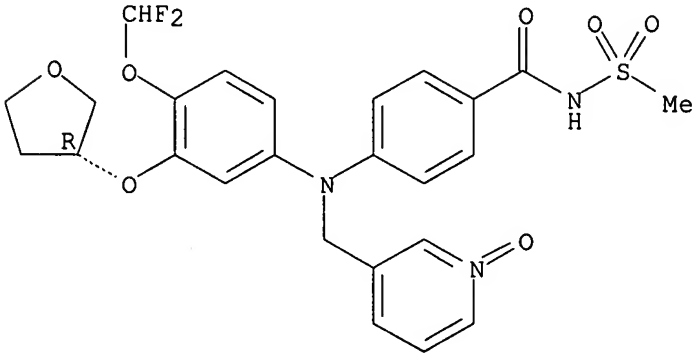
RN 699004-63-2 HCAPLUS
CN Benzoic acid, 4-[[4-(difluoromethoxy)-3-[[(3R)-tetrahydro-3-furanyl]oxy]phenyl][(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



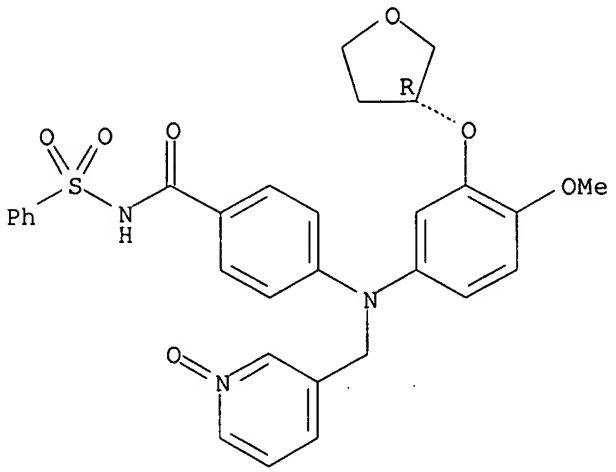
RN 699004-64-3 HCAPLUS
CN Benzamide, 4-[[4-(difluoromethoxy)-3-[[(3R)-tetrahydro-3-furanyl]oxy]phenyl][(1-oxido-3-pyridinyl)methyl]amino]-N-(methylsulfonyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

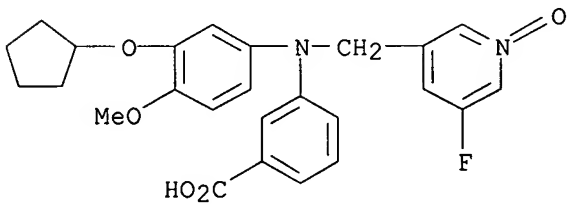


RN 699004-65-4 HCAPLUS
CN Benzamide, 4-[[4-methoxy-3-[[(3R)-tetrahydro-3-furanyl]oxy]phenyl][(1-oxido-3-pyridinyl)methyl]amino]-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)

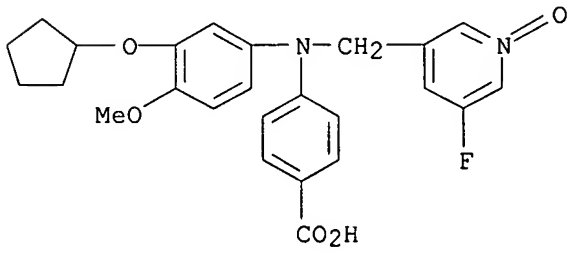
Absolute stereochemistry.



RN 699004-66-5 HCAPLUS
CN Benzoic acid, 3-[[3-(cyclopentyloxy)-4-methoxyphenyl][(5-fluoro-1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)

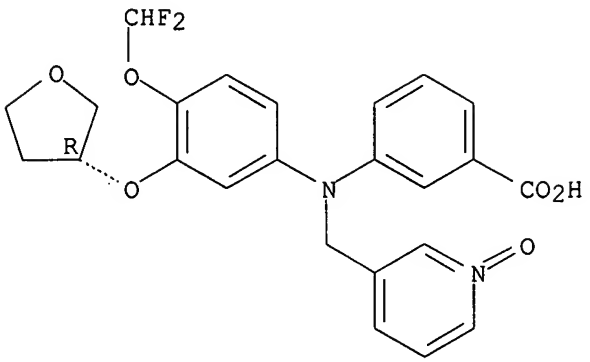


RN 699004-67-6 HCAPLUS
CN Benzoic acid, 4-[[3-(cyclopentyloxy)-4-methoxyphenyl][(5-fluoro-1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)

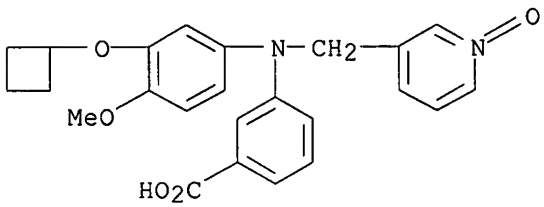


RN 699004-68-7 HCAPLUS
CN Benzoic acid, 3-[[4-(difluoromethoxy)-3-[[(3R)-tetrahydro-3-furanyl]oxy]phenyl][(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)

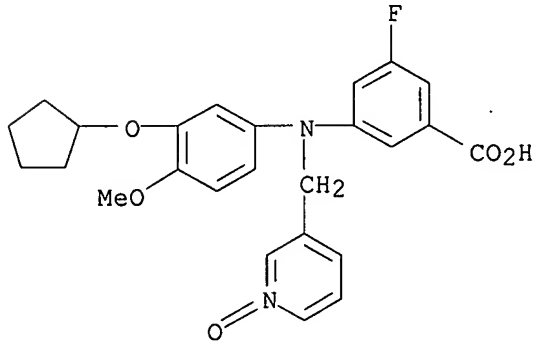
Absolute stereochemistry.



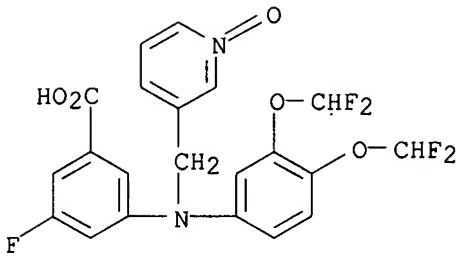
RN 699004-69-8 HCAPLUS
CN Benzoic acid, 3-[[3-(cyclobutyloxy)-4-methoxyphenyl][(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)



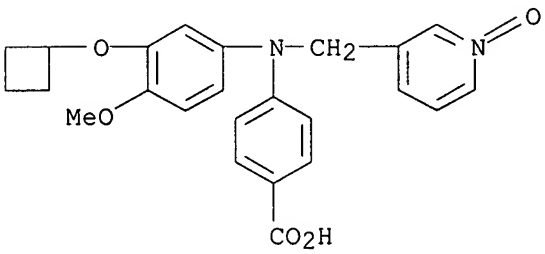
RN 699004-70-1 HCAPLUS
CN Benzoic acid, 3-[[3-(cyclopentyloxy)-4-methoxyphenyl][(1-oxido-3-pyridinyl)methyl]amino]-5-fluoro- (9CI) (CA INDEX NAME)



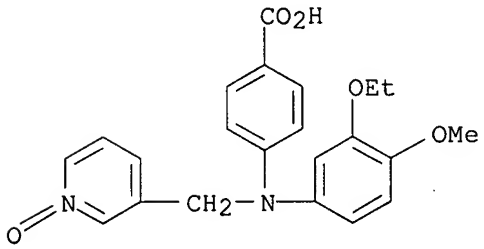
RN 699004-71-2 HCAPLUS
CN Benzoic acid, 3-[[3,4-bis(difluoromethoxy)phenyl][(1-oxido-3-pyridinyl)methyl]amino]-5-fluoro- (9CI) (CA INDEX NAME)



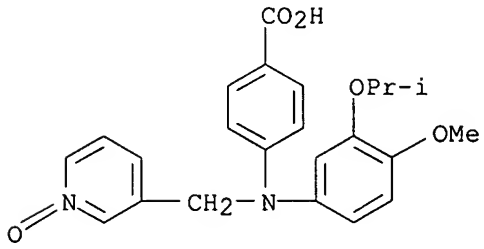
RN 699004-72-3 HCAPLUS
CN Benzoic acid, 4-[[3-(cyclobutyloxy)-4-methoxyphenyl][(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)



RN 699004-76-7 HCAPLUS
CN Benzoic acid, 4-[(3-ethoxy-4-methoxyphenyl)[(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)

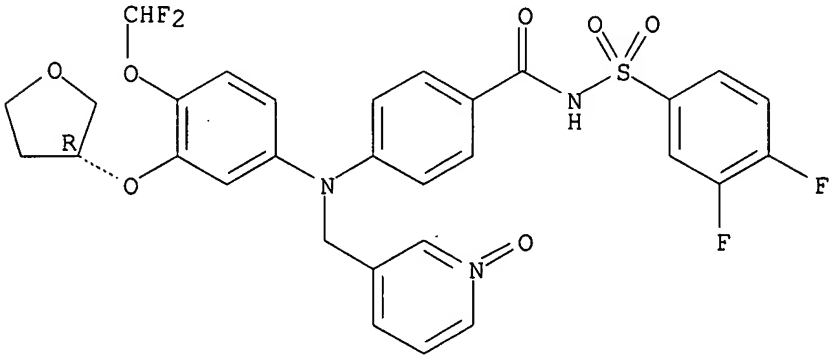


RN 699004-81-4 HCAPLUS
CN Benzoic acid, 4-[[4-methoxy-3-(1-methylethoxy)phenyl][(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)

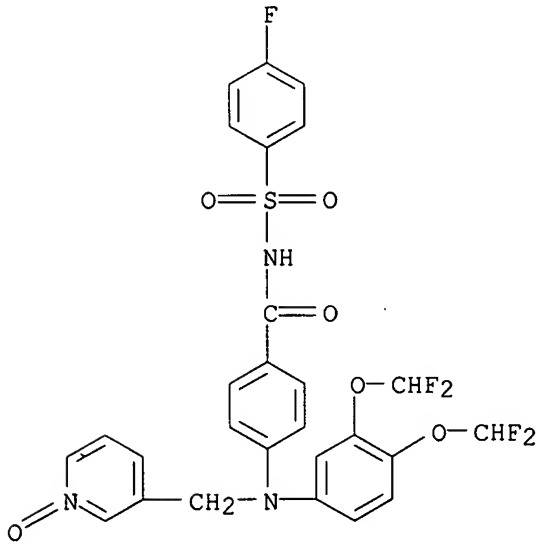


RN 699004-85-8 HCAPLUS
CN Benzamide, 4-[[4-(difluoromethoxy)-3-[[(3R)-tetrahydro-3-furanyl]oxy]phenyl][(1-oxido-3-pyridinyl)methyl]amino]-N-[(3,4-difluorophenyl)sulfonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

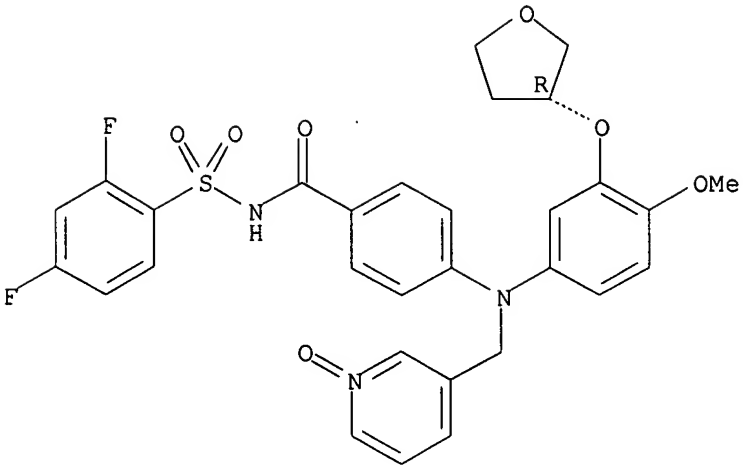


RN 699004-88-1 HCAPLUS
CN Benzamide, 4-[[3,4-bis(difluoromethoxy)phenyl][(1-oxido-3-pyridinyl)methyl]amino]-N-[(4-fluorophenyl)sulfonyl]- (9CI) (CA INDEX NAME)



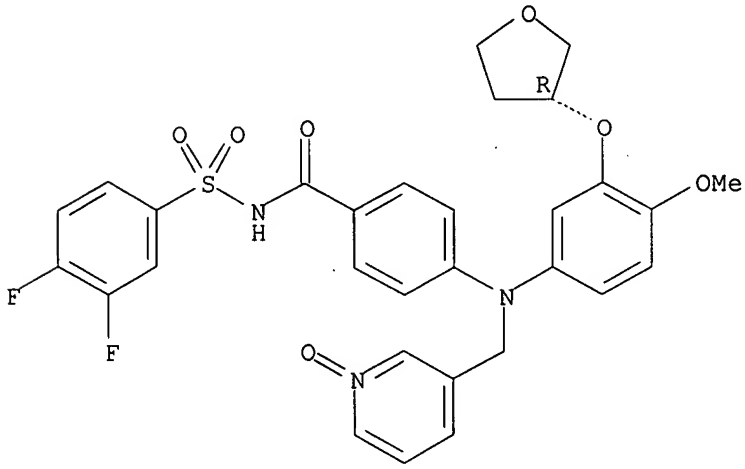
RN 699004-91-6 HCAPLUS
CN Benzamide, N-[(2,4-difluorophenyl)sulfonyl]-4-[[4-methoxy-3-[[(3R)-tetrahydro-3-furanyl]oxy]phenyl][(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



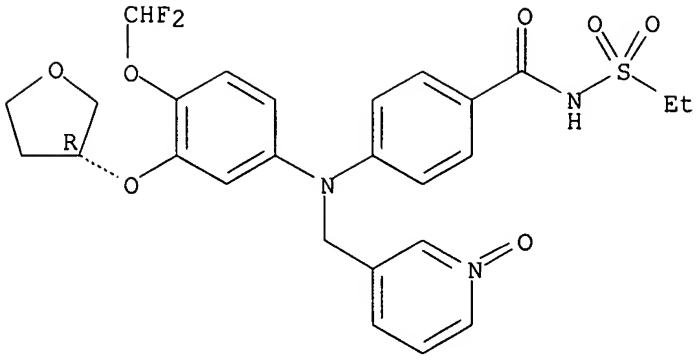
RN 699004-93-8 HCAPLUS
CN Benzamide, N-[(3,4-difluorophenyl)sulfonyl]-4-[[4-methoxy-3-[[(3R)-tetrahydro-3-furanyl]oxy]phenyl][(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

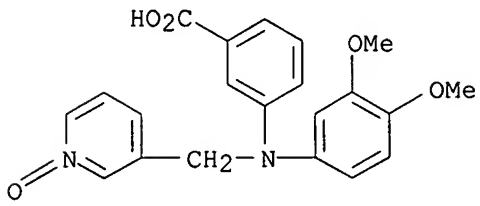


RN 699004-94-9 HCAPLUS
CN Benzamide, 4-[[4-(difluoromethoxy)-3-[[(3R)-tetrahydro-3-furanyl]oxy]phenyl][(1-oxido-3-pyridinyl)methyl]amino]-N-(ethylsulfonyl)- (9CI) (CA INDEX NAME)

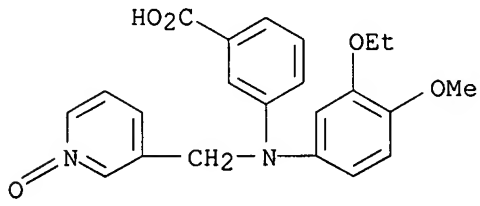
Absolute stereochemistry.



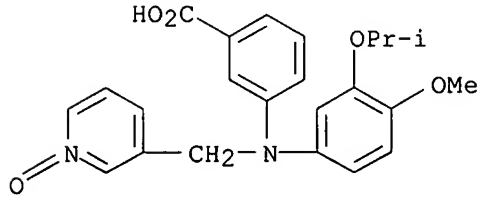
RN 699004-95-0 HCAPLUS
CN Benzoic acid, 3-[(3,4-dimethoxyphenyl)[(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)



RN 699004-96-1 HCAPLUS
CN Benzoic acid, 3-[(3-ethoxy-4-methoxyphenyl)[(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)

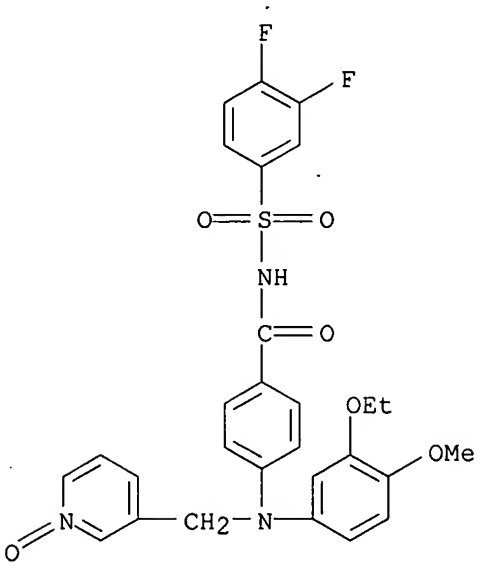


RN 699004-97-2 HCAPLUS
CN Benzoic acid, 3-[[4-methoxy-3-(1-methylethoxy)phenyl][(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)

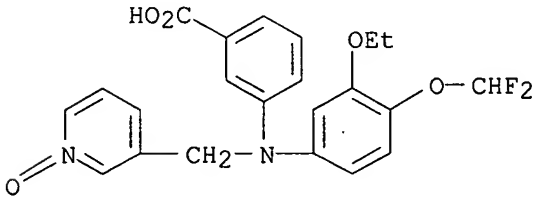


RN 699004-98-3 HCAPLUS
CN Benzamide, N-[(3,4-difluorophenyl)sulfonyl]-4-[(3-ethoxy-4-

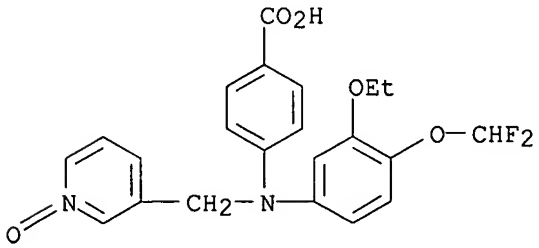
methoxyphenyl)[(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)



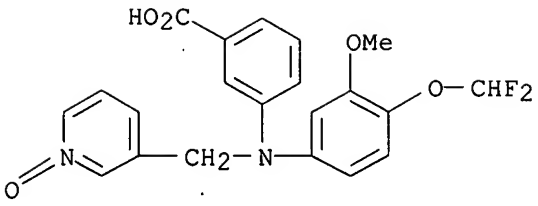
RN 699004-99-4 HCAPLUS
CN Benzoic acid, 3-[[4-(difluoromethoxy)-3-ethoxyphenyl][(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)



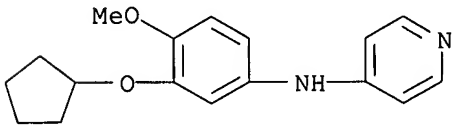
RN 699005-00-0 HCAPLUS
CN Benzoic acid, 4-[[4-(difluoromethoxy)-3-ethoxyphenyl][(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)



RN 699005-01-1 HCAPLUS
CN Benzoic acid, 3-[[4-(difluoromethoxy)-3-methoxyphenyl][(1-oxido-3-pyridinyl)methyl]amino]- (9CI) (CA INDEX NAME)



IT **699003-93-5**, 4-[(3-Cyclopentyloxy-4-methoxyphenyl)amino]pyridine
**699003-96-8**, tert-Butyl 4-[N-(3-cyclopentyloxy-4-methoxyphenyl)-N-[(1-oxo-3-pyridyl)methyl]amino]benzoate
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of N-oxides of heteroarylmethyl Ph amines as phosphodiesterase 4 inhibitors)
RN 699003-93-5 HCAPLUS
CN 4-Pyridinamine, N-[3-(cyclopentyloxy)-4-methoxyphenyl]- (9CI) (CA INDEX NAME)



RN 699003-96-8 HCAPLUS
CN Benzoic acid, 4-[[3-(cyclopentyloxy)-4-methoxyphenyl][(1-oxido-3-pyridinyl)methyl]amino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)